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APPLICATION NO	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/084,802 02/28/2002		Mark Howard Giammattei	RD-27809-7	7858	
6147	7590	08/11/2005		EXAMINER	
GENERA GLOBAL		CTRIC COMPAN	RAO, G NAGESH		
		T RM. BLDG. K1-4	ART UNIT	PAPER NUMBER	
NISKAYU	JNA, N	Y 12309	1722		
				DATE MAILED: 08/11/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
065	10/084,802	GIAMMATTEI, MARK HOWARD				
Office Action Summary	Examiner	Art Unit				
	G. Nagesh Rao	1722				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.12 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on		•				
2a) ☐ This action is FINAL . 2b) ☒ This	action is non-final.					
·	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>29-43</u> is/are pending in the application	n					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>29-43</u> is/are rejected.	☑ Claim(s) <u>29-43</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers	¥-					
9) ☐ The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the	* * * * * * * * * * * * * * * * * * * *					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	n-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority document						
3. Copies of the certified copies of the prior		ed in this National Stage				
application from the International Bureau * See the attached detailed Office action for a list	• • • • • • • • • • • • • • • • • • • •	ad				
See the attached detailed Office action for a list	of the certified copies flot receive	.u.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)				
S. Bottont and Trademady Office						

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1) Claims 29-31, 33-34, and 36-43 rejected under 35 U.S.C. 102(b) as being anticipated by Kasting (US Patent No. 3,632,256).

Kasting 256 depicts in Figure 1 an extrusion compounding apparatus, whereby there is a discharge chamber defined by a first sectioning wall, a second sectioning wall and a contoured lower wall that transitions toward a discharge port (22a) where an extruder shaft (12) extends through said first sectioning wall, traverses said chamber and extends through said sectioning wall whereby the shaft is commonly run through a discharge section that connects a first compounding apparatus upstream (Where 20a is located) to a second compound apparatus downstream (Where 20b is located) where it is capable of having length to ratio diameters of 30 or less. Finally the extruder having a single screw configuration which are capable of having either reciprocating or non-reciprocating configurations. Furthermore Kasting 256 teaches that the single screw configuration

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arrangement between the two compounding apparatuses (See Col 1 Lines 1-75, Col 2 Lines 1-75, Col 3 Lines 1-65 and Col 4 Lines 1-65).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 2) Claims 32 and 35 rejected under 35 U.S.C. 103(a) as being unpatentable over Kasting (US Patent No. 3,632,256) in view of Lowe (US Patent No. 5,259,671).

From the aforementioned Kasting 256 teaches an extrusion compounding apparatus with and upstream and downstream section.

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However Kasting 256 lack the teachings of incorporating disconnectable couplings that would permit the two extruder apparatuses disconnected from the extruder transition section taught by Kasting 256.

Given the related art of extruders and mixers, Lowe 671 teaches an assembly apparatus including an extruder and mixer that also entails the teaching of a disconnectable coupling (Quick-Disconnect Coupling Columns 7-10). Lowe 671 elaborates on coupling usage for maintaining concentric alignment and torque capabilities.

It would be obvious to one skilled in the art to employ the teachings of Lowe 671 into that of Kasting 256 to enable that the extruder devices can be aligned with each other in between the mid-transitioning extruder device, but as well have the ability to be quickly disassembled from each other in the event of repairs or having to replace one of the extruder apparatuses when one fails but not the other.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to G. Nagesh Rao whose telephone number is (571) 272-2946. The examiner can normally be reached on 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax

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phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GNR

ROBERT DAVIS
PRIMARY EXAMINER